

Abstract of the Disclosure

This invention discloses a rotary cutting apparatus and grass guide for mowing lawns. The rotary cutting apparatus consists of a plurality of small blades with their plane of rotation rotated between 1° and 90° from the horizontal plane of rotation. The rotation of the small blades from the horizontal plane of rotation working in conjunction with the grass guide results in a significant savings in required rotational kinetic energy due to the large reduction in mass of the plurality of small blades from that of a single large blade. The combination of this more efficient cutting design with the significant savings in required rotational kinetic energy allows for a smaller, quieter, lighter and less powerful motor or motors to be used. This results in a smaller, safer, quieter and lighter lawnmower, which is easier to operate and store.